

WHAT IS CLAIMED IS:

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1. A three-dimension ceramics structure, comprising:  
a three-dimension fabric-like ceramics structure obtained by baking an intermediate comprising a three-dimension fabric having continuous apertures and ceramics materials adhered to surfaces of yarns constituting said three-dimension fabric to eliminate organic components of said three-dimension fabric.

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2. The three-dimension ceramics structure as recited in claim 1, wherein said three-dimension fabric comprises upper and lower fabric layers disposed at a certain distance and each having a plurality of apertures and connecting yarns connecting said upper fabric layer with said lower fabric layer.

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3. The three-dimension ceramics structure as recited in claim 2, further comprising one or a plurality of fabric layers each having apertures and disposed between said upper fabric layer and said lower fabric layer.

4. The three-dimension ceramics structure as recited in claim 1, wherein high-performance material is adhered to a surface of said three-dimension fabric-like ceramics structure.

5. The three-dimension ceramics structure as recited in claim 2, wherein high-performance material is adhered to a

surface of said three-dimension fabric-like ceramics structure.

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6. The three-dimension ceramics structure as recited in claim 3, wherein high-performance material is adhered to a surface of said three-dimension fabric-like ceramics structure.

7. A method for manufacturing a three-dimension ceramics structure, including the steps of:

immersing a three-dimension structural fabric having penetrated apertures into ceramics slurry; and

baking said three-dimension structural fabric raised from said ceramics slurry at a predetermined temperature to eliminate organic components of said three-dimension structural fabric to thereby obtain said three-dimension ceramics structure.

8. The method for manufacturing a three-dimension ceramics structure as recited in claim 7, wherein said ceramics slurry contains organic bonding agents.

9. The method for manufacturing a three-dimension ceramics structure as recited in claim 7, wherein said three-dimension structural fabric comprises upper and lower fabric layers disposed at a certain distance and each having a plurality of apertures and connecting yarns connecting said upper and lower fabric layers.

10. The method for manufacturing a three-dimension ceramics structure as recited in claim 8, wherein said three-dimension structural fabric comprises upper and lower fabric layers disposed at a certain distance and each having a plurality of apertures and connecting yarns connecting said upper and lower fabric layers.

11. The method for manufacturing a three-dimension ceramics structure as recited in claim 9, wherein at least some of said connecting yarn include a monofilament yarn of from 100 to 2000 denier.

12. The method for manufacturing a three-dimension ceramics structure as recited in claim 11, wherein a combined yarn made by combining one or two kinds of yarns selected from the group including a spun yarn and a multifilament yarn with a monofilament yarn of from 100 to 2000 denier is used as said connecting yarn.

13. The method for manufacturing a three-dimension ceramics structure as recited in claim 11, wherein one or two kinds of yarns selected from the group including a spun yarn and a multifilament yarn and a monofilament yarn of from 100 to 2000 denier are independently used as said connecting yarn, without using as their combination.

14. The method for manufacturing a three-dimension ceramics structure as recited in claim 11, wherein at least some of yarns constituting said upper and lower fabric layers include one or two kinds of yarns selected from the group including a spun yarn and a multifilament yarn.

15. The method for manufacturing a three-dimension ceramics structure as recited in claim 12, wherein at least some of yarns constituting said upper and lower fabric layers include one or two kinds of yarns selected from the group including a spun yarn and a multifilament yarn.

16. The method for manufacturing a three-dimension ceramics structure as recited in claim 13, wherein at least some of yarns constituting said upper and lower fabric layers include one or two kinds of yarns selected from the group including a spun yarn and a multifilament yarn.

17. A three-dimension ceramics structure, comprising a three-dimension fabric-like structure made of ceramics.

18. The three-dimension ceramics structure as recited in claim 17, wherein said fabric-like structure comprises upper and lower fabric-like layers disposed at a certain distance and an intermediate yarn-like connecting layer connecting said upper fabric-like layer with said lower fabric-like layer.

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19. The three-dimension ceramics structure as recited in claim 17, further comprising one or a plurality of intermediate fabric-like ceramics layers disposed between said upper and lower fabric-like ceramics layers.

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20. The three-dimension ceramics structure as recited in claim 17, wherein high-performance material is adhered to a surface of said fabric-like ceramics structure.

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21. ~~The three-dimension ceramics structure as recited in claim 20, wherein said high-performance material is catalyst or adsorbent.~~